

### ABSTRACT OF THE DISCLOSURE

In an electronic component mounting apparatus capable of replacing a component placing device with any of plural other component placing devices different in performance, the distance between the center line of a component pick-up portion of a replaced component placing device and the optical axis of a board recognizing camera is calibrated easily and precisely. A movable table is positioned so that a reference mark provided on a base frame to reside in the visual field of a component recognizing camera comes in the visual field of a board recognizing camera and that at the same time, the end of the component pick-up portion of the replaced component placing device comes in the visual field of the component recognizing camera. The board recognizing camera is used to detect the positional relation of the optical axis thereof relative to the reference mark, while the component recognizing camera is used to detect the positional relations of the optical axis thereof relative to the reference mark and relative to the center line of the component pick-up portion. These detected positional relations are used to calculate the positional relation between the optical axis of the board recognizing camera and the center line of the component pick-up portion.